

THE INVENTION CLAIMED IS

1. A program writable IC card, comprising:

a microprocessor;

a memory for storing a program write control

5 program having at least one of a decryption function

and a function for converting a program code and a

program for said microprocessor; and

means in said microprocessor for performing at

least one of said decryption process and said process

10 of converting a program code according to said program

write control program and storing said program in said

memory when said program for said microprocessor is

given from the outside.

2. A program writable IC card, comprising:

15 a microprocessor;

a memory for storing a program write control

program having a decryption function and a program for

said microprocessor; and

means in said microprocessor for performing said

20 decryption process according to said program write

control program and storing said program in said

memory when said crypted program for said

microprocessor is given from the outside.

3. A program writable IC card, comprising:

25 a microprocessor;

a memory for storing a program write control program having a function for converting a program code and a program for said microprocessor; and

means in said microprocessor for performing said
5 process for converting a program code according to said program write control program and storing said program in said memory when said program for said microprocessor is given from the outside.

4. A program writable IC card according to Claim
10 2, wherein said program write control program, further comprising:

a function for converting a program code; and
said microprocessor further comprising:

means for performing said decryption process and
15 said process of converting a program code according to said program write control program and storing said program in said memory when said crypted program for said microprocessor is given from the outside.

5. A program writable IC card, comprising:
20 a first and a second microprocessor;
an external signal input unit;
switching means for switching a signal inputted from said external signal input unit to said first microprocessor or said second microprocessor; and
25 a memory for storing a program write control

program having at least one of a decryption function
and a function for converting a program code and a
program for said first microprocessor inputted from
said external signal input unit; and

5 said second microprocessor, comprising;

means in said second microprocessor for performing
at least one of said decryption process and said
process of converting a program code according to said
program write control program and storing said program
10 in said memory when said program for said first
microprocessor is given from the outside.

6. A program writable IC card, comprising:

a first and a second microprocessor;

an external signal input unit;

15 switching means for switching a signal inputted
from said external signal input unit to said first
microprocessor or said second microprocessor; and

a memory for storing a program write control
program having a decryption function and a program for
20 said first microprocessor inputted from said external
signal input unit; and

said second microprocessor, comprising;

means in said second microprocessor for performing
said decryption process according to said program
25 write control program and storing said program in said

memory when said crypted program for said first microprocessor is given from the outside.

7. A program writable IC card, comprising:
a first and a second microprocessor;

5 an external signal input unit;

switching means for switching a signal inputted from said external signal input unit to said first microprocessor or said second microprocessor; and

10 a memory for storing a program write control program having a function for converting a program code and a program for said first microprocessor inputted from said external signal input unit; and

said second microprocessor, comprising;

15 means in said second microprocessor for performing said process for converting a program code according to said program write control program and storing said program in said memory when said program for said first microprocessor is given from the outside.

20 8. A program writable IC card according to Claim 6, wherein said program write control program, further comprising:

a function for converting a program code; and

said second microprocessor further comprising:

25 means for performing said decryption process and said process of converting a program code according to

said program write control program and storing said program in said memory when said crypted program for said first microprocessor is given from the outside.

9. A program writable IC card, comprising:

5 a microprocessor whose information is not opened to public and a microprocessor whose information is opened to public;

an external signal input unit;

10 a memory for storing a program for said microprocessor whose information is not opened to public and a program for said microprocessor whose information is opened to public;

15 means for accessing said memory for storing a program only from said microprocessor whose information is not opened to public;

switching means for switching a signal inputted from said external signal input unit to said microprocessor whose information is not opened to public or said microprocessor whose information is
20 opened to public; and

a memory for storing said program by said microprocessor whose information is not opened to public when said program for said microprocessor whose information is opened to public is given from the
25 outside.

10. A program writable IC card, comprising:

a microprocessor whose information is not opened to public and a microprocessor whose information is opened to public;

5 an external signal input unit;

a memory for storing a program for said microprocessor whose information is not opened to public and a program for said microprocessor whose information is opened to public;

10 means for accessing said memory for storing a program only from said microprocessor whose information is not opened to public;

switching means for switching a signal inputted from said external signal input unit to said
15 microprocessor whose information is not opened to public or said microprocessor whose information is opened to public; and

a memory for storing said program by said microprocessor whose information is opened to public
20 when said program for said microprocessor whose information is opened to public is given from the outside.

11. A program writable IC card according to one of Claims 1 to 10, wherein said memory for storing a
25 program for said microprocessor is a memory which can

write only once.

12. A processing method for a program writable IC card having a microprocessor and a memory for storing a program for said microprocessor, comprising:

5 a step of performing at least one of a decryption process and a process of converting a program code for said program according to a program write control program when said program for said microprocessor is given from the outside; and

10 a step of storing a processing result of at least one of said decryption process and said process of converting a program code in said memory.

13. A processing method for a program writable IC card having a microprocessor and a memory for storing a program for said microprocessor, comprising:

15 a step of performing a decryption process for said program according to a program write control program when said crypted program for said microprocessor is given from the outside; and

20 a step of storing a processing result of said decryption process in said memory.

14. A processing method for a program writable IC card having a microprocessor and a memory for storing a program for said microprocessor, comprising:

25 a step of performing a process of converting a

program code for said program according to a program write control program when said program for said microprocessor is given from the outside; and

5 a step of storing a processing result of said process of converting a program code in said memory.

15. A processing method for a program writable IC card having a first and a second microprocessor and a memory for storing a program for said first microprocessor, comprising:

10 a step of performing at least one of a decryption process and a process of converting a program code, which is a process by said second microprocessor, for said program according to a program write control program when said program for said first
15 microprocessor is given from the outside; and

a step of storing a processing result of at least one of said decryption process and said process of converting a program code in said memory by said second microprocessor.

20 16. A processing method for a program writable IC card having a first and a second microprocessor and a memory for storing a program for said first microprocessor, comprising:

25 a step of performing a decryption process, which is a process by said second microprocessor, for said

program according to a program write control program
when said crypted program for said first
microprocessor is given from the outside; and

5 a step of storing a processing result of said
decryption process in said memory by said second
microprocessor.

17. A processing method for a program writable IC
card having a first and a second microprocessor and a
memory for storing a program for said first
10 microprocessor, comprising:

a step of performing a process for converting a
program code, which is a process by said second
microprocessor, for said program according to a
program write control program when said program for
15 said first microprocessor is given from the outside;
and

a step of storing a processing result of said
process for converting a program code in said memory
by said second microprocessor.

20 18. A processing method for a program writable IC
card having a first and a second microprocessor and a
memory for storing a program for said first
microprocessor, comprising:

a step of storing a program for said first
25 microprocessor whose information is not opened to

public and a program for a microprocessor whose
information is opened to public in a memory;

a step of accessing said memory for storing a
program only from said microprocessor whose
5 information is not opened to public;

a step of switching a signal inputted from said
external signal input unit to said microprocessor
whose information is not opened to public or said
microprocessor whose information is opened to public;
10 and

a step of storing said program by said
microprocessor whose information is not opened to
public when said program for said microprocessor whose
information is opened to public is given from the
15 outside.

19. A processing method for a program writable IC
card having a first and a second microprocessor and a
memory for storing a program for said first
microprocessor, comprising:

20 a step of storing a program for said first
microprocessor whose information is not opened to
public and a program for a microprocessor whose
information is opened to public in a memory;

a step of accessing said memory for storing a
25 program only from said microprocessor whose

information is not opened to public;

5 a step of switching a signal inputted from said
external signal input unit to said microprocessor
whose information is not opened to public or said
microprocessor whose information is opened to public;
and

10 a step of storing said program by said
microprocessor whose information is opened to public
when said program for said microprocessor whose
information is opened to public is given from the
outside.